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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,295 07/29/2003		03	Douglas Carl Bacon	132843	6494
John S. Beulic	7590 k	12/31/2007		EXAM	IINER
Armstrong Tea		JOSEPH, TONYA S			
Suite 2600 One Metropoli	tan Square			ART UNIT	PAPER NUMBER
St. Louis, MO 63102				3628	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
•		10/629,295	BACON ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Tonya Joseph	3628			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as a soint of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		·				
1)	Responsive to communication(s) filed on 10 Se	eptember 2007.				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims	2				
5)□ 6)⊠ 7)□	Claim(s) 10-27 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 10-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers		•			
9) 🔲 -	The specification is objected to by the Examine	r.				
10) 🔲 🧻	The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the E	Examiner.			
	Applicant may not request that any objection to the o					
11)	Replacement drawing sheet(s) including the correcting the oath or declaration is objected to by the Example 1.					
Priority u	inder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Status of Claims

Claims 10-12, 19-21 have been amended. No Claims have been added. No Claims have been cancelled. Thus Claims 10-27 are again presented for Examination.

Response to Arguments

1. Applicant's arguments with respect to claims 10-27 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 10, 13-14, 17-19, 22-23 and 26-27 rejected under 35 U.S.C. 103(a) as being unpatentable over Gonyea et al. U.S. Pre-Grant Publication No. 2001/0032109 A1 in further view of Uegaki U.S. Pre-grant Publication No. 2002/0161533 A1.
- 4. As per Claim 10, Gonyea teaches a client system (see para. 13 lines 1-6, para. 14 lines 1-5 and Fig. 1; a centralized database for storing information (see para. 13 lines 13-17 and Fig. 1); a server system configured to be coupled to said client system and said database said server system (see para. 13 lines 6-17, para. 19 lines 1-4 and Fig. 1) further configured to:

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receive, at the database, component operational history data and component inspection data from a user for a pre-identified component (see para. 46 lines 6-8 and para. 31 lines 6-10, para. 21 lines 1-13 and para. 26 lines 8-10); receive, at the database, cost comprising at least one of: component replacement part costs, component part repair costs, and vendor service costs, the cost are associated with the pre-identified component (see para. 22 lines 8-13 and para. 44); prompt a user to input a pre-determined component operational forecast into the database (see para. 26 lines 6-10 and Fig. 5);

analyze component maintenance information including component inspection data (see para. 27 lines 10-34; para. 31 lines 6-10 and para. 32-34) and at least one of component operational history data, replacement part costs, part repair costs, vendor service costs, and component operational forecast (see para. 27 lines 9-26); and automatically generate a financial report including at least one schedule of component maintenance events and costs associated with each event based on the component maintenance information analysis (see para. 24 lines 12-20). Gonyea does not explicitly teach the system taught by Uegaki cost are determined using pre-stored costs related to the pre-identified component (see para. 13-14 and para. 49). It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the system of Gonyea to include the teachings of Uegaki to determine ranking levels for parts inventory and provide users with more part options for their estimate as taught by Uegaki para. 50.

- 5. As per Claim 13, Gonyea in view of Uegaki teaches the system of claim 10 as described above. Gonyea further teaches, said server system is configured to compute a schedule for maintenance events based on at least one of estimated life of replacement parts, estimated life of repaired parts, component operational history, component operational forecast and a predetermined maintenance event interval (see para. 27 lines 9-16 and para. 31).
- 6. As per Claim 14, Gonyea in view of Uegaki teaches the system of claim 13 as described above. Gonyea further teaches said server system is configured to determine a part repair cycle (see para. 27 lines 27-37).
- 7. As per Claim 17, Gonyea in view of Uegaki teaches the system of claim 10 as described above. Gonyea further teaches remove selected parts from an inventory (see para. 55 lines 2-7 and para. 56 lines 5-9); repair the component using the selected parts (see para. 57 lines 1-5); automatically orders replacement parts for purchase (see para. 57 lines 11-12) and replenish the inventory using the replacement parts (see para. 57 lines 12-14). Gonyea does not explicitly teach said server system is configured to: automatically compute a projected rotation of component parts through a fleet of components. However, Gonyea discloses an automatic computation of a projected rotation of component parts through a component (see para. 55, 56 and 57). Therefore, it would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the system of Gonyea to include automatically compute a projected rotation of component parts through a fleet of components in order to accomplish the desired effect for multiple components.

- 8. As per Claim 18, Gonyea in view of Uegaki teaches the system of claim 10 as described above. Gonyea further teaches said server system is configured to automatically compute the financial charges accrued during the maintenance event
- vendor service costs associated with the maintenance event (see para. 24 lines 12-20

using the component replacement part costs, the component part repair costs, and the

- and para. 22 lines 8-13).
- 9. As per Claim 19, Gonyea teaches, a computer program embodied on a computer readable medium for maintaining at least one component, said program comprising a code segment that receives, at a database, component operational history data and component inspection data from a user for a pre-identified component and (see para. 60 and para. 46 lines 6-8 and para. 31 lines 6-10):

receive, at the database, cost comprising at least one of: component replacement part costs, component part repair costs, and vendor service costs, the cost are associated with the pre-identified component (see para. 22 lines 8-13 and para. 44); prompts a user to input a pre-determined component operational forecast into the

database (see para. 26 lines 6-10 and Fig. 5);

analyzes component maintenance information including component inspection data (see para. 27 lines 10-34; para. 31 lines 6-10 and para. 32-34) and at least one of component operational history data, replacement part costs, part repair costs, vendor service costs, and component operational forecast (see para. 27 lines 9-26); automatically generates a financial report including at least one schedule of component maintenance events and costs associated with each event based on the component

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maintenance information analysis (see para. 60 and para. 24 lines 12-20). Gonyea does not explicitly teach the system taught by Uegaki cost are determined using pre-stored costs related to the pre-identified component (see para. 13-14 and para. 49). It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the system of Gonyea to include the teachings of Uegaki to determine ranking levels for parts inventory and provide users with more part options for their estimate as taught by Uegaki para. 50.

- 10. As per Claim 22, Gonyea in view of Uegaki teaches the computer readable medium of claim 19 as described above. Gonyea further teaches said program comprising a code segment that computes a schedule for maintenance events based on at least one of estimated life of replacement parts, estimated life of repaired parts, component operational history, component operational forecast and predetermined maintenance event interval (see para. 60 and para. 27 lines 9-16 and para. 31).
- 11. As per Claim 23, Gonyea in view of Uegaki teaches the computer readable medium of claim 22 as described above. Gonyea further teaches said program comprising a code segment that determines a part repair cycle (see para. 60 and para. 27 lines 27-37).
- 12. As per Claim 26, Gonyea in view of Uegaki teaches the computer readable medium of claim 19. Gonyea further teaches said program comprising a code segment that (see para. 60); removes selected parts from an inventory (see para. 55 lines 2-7 and para. 56 lines 5-9); repairs the component using the selected parts (see para. 57 lines 1-5); automatically orders replacement parts for purchase (see para. 57 lines 11-

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- 12); and replenishes the inventory using the replacement parts (see para. 57 lines 12-
- 14). Gonyea does not explicitly teach said server system is configured to: automatically compute a projected rotation of component parts through a fleet of components. However, Gonyea discloses an automatic computation of a projected rotation of component parts through a component (see para. 55, 56 and 57). Therefore, it would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the system of Gonyea to include automatically compute a projected rotation of component parts through a fleet of components in order to accomplish the desired effect for multiple components.
- 13. As per Claim 27. Gonyea in view of Uegaki teaches the computer readable medium of claim 19 as described above. Gonyea further teaches said server system is configured to automatically compute the financial charges accrued during the maintenance event using the component replacement part costs, the component part repair costs, and the vendor service costs associated with the maintenance event (see para. 60 and para. 24 lines 12-20 and para. 22 lines 8-13).
- Claims 11 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gonyea et al. U.S. Pre-Grant Publication No. 2001/0032109 A1 in further view of Uegaki U.S. Pre-Grant Publication No. 2002/0161533 A1 in further view of McQuown et al. U.S. Pre-Grant Publication No. 2002/20059269 A1.
- As per Claim 11, Gonyea in view of Uegaki teaches the system of claim 10 as 15. described above. Gonyea further teaches said server system is configured to receive component replacement part costs, component part repair costs, and vendor service

costs associated with the identified component from an on-line catalog selected based on the component identification (see para. 17 lines 4-7; para. 19 lines 4-9; para. 22 lines 3-13 and para. 44, Examiner is interpreting a listed item on the parts list as an identified component. Examiner is further interpreting an online database having lists and files relating to parts list detail as an online catalog). Gonyea does not explicitly teach the system taught by McQuown, the online catalog comprising pre-stored data for a plurality of pre-identified components (see para. 44 and 46). It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the systems of Gonyea and Uegaki to include the teachings of McQuown to allow for direct parts

ordering for inventory in a specific repair, as taught by McQuown para. 46.

16. As per Claim 20, Gonyea in view of Uegaki teaches the computer readable medium of claim 19 as described above. Gonyea further teaches said program comprising a code segment that receives component replacement part costs, component part repair costs, and vendor service costs associated with the identified component from an on-line catalog selected based on the component identification (see para. 60 and see para. 17 lines 4-7; para.19 lines 4-9; para. 22 lines 3-13 and para. 44, Examiner is interpreting a listed item on the parts list as an identified component..

Examiner is further interpreting an online database having lists and files relating to parts list detail as an online catalog). Gonyea does not explicitly teach the system taught by McQuown, the online catalog comprising pre-stored data for a plurality of pre-identified components (see para. 44 and 46). It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the systems of Gonyea and

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Uegaki to include the teachings of McQuown to allow for direct parts ordering for inventory in a specific repair, as taught by McQuown para. 46.

- 17. Claims 12 and 21 are rejected under 35 U.S.C. 103(a) as being anticipated by Gonyea et al. U.S. Pre-Grant Publication No. 2001/0032109 A1 in view of Uegaki U.S. Pre-grant Publication No. 2002/0161533 in further view of Herz et al. U.S. Pre-Grant Publication No. 2001/0014868 A1 and Tsunoda et al. JP 2002149861.
- 18. As per Claim 12, Gonyea teaches the system of claim 10 as described above. Gonyea further teaches said server system is configured to: determine component maintenance event contingency fees (see para. 24 lines 12-20, Examiner is interpreting service costs as contingency fees); Gonyea does not explicitly teach, determine customer cost discount level for replacement parts and vendor fees. Herz teaches determine customer cost discount level for vendor fees (see para. 279 lines 1-10). Tsunoda teaches discloses determine customer cost discount level for replacement parts (see the Solution of Tsunoda lines 15-18). It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the systems of Gonyea and Uegaki to include determining customer cost discount level for replacement parts and vendor fees in order to provide an incentive to a client to use the services of a vendor.
- 19. As per Claim 21, Gonyea teaches the computer readable medium of claim 19 as described above. Gonyea further teaches said program comprising a code segment that: determines component maintenance event contingency fees (see para. 60 and para. 24 lines 12-20; Examiner is interpreting service costs as contingency fees);

Gonyea does not explicitly teach, determine customer cost discount level for replacement parts and vendor fees. Herz teaches determine customer cost discount level for vendor fees (see para. 279 lines 1-10). Tsunoda teaches discloses determine customer cost discount level for replacement parts (see the Solution of Tsunoda lines 15-18). It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the systems of Gonyea and Uegaki to include determining customer cost discount level for replacement parts and vendor fees in order to provide an incentive to a client to use the services of a vendor.

- 20. Claims 15-16, and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Gonyea et al. U.S. Pre-Grant Publication No. 2001/0032109 A1 in view of Uegaki U.S. Pre-grant Publication No. 2002/0161533 in further view of Official Notice.
- 21. As per Claim 15, Gonyea teaches the system of claim 10 as described above. Gonyea further teaches an age of a plurality of parts installed in a component (see para. 20 lines 6-9 and lines 3-5) an age of the component parts in inventory (see para. 27 lines 9-14, Examiner is interpreting a part that has been removed from a component, repaired and then returned to inventory as having a known age). Gonyea does not explicitly teach a user being prompted to input age of a plurality of parts installer in a component and an age of the component parts in inventory. Official Notice is taken that prompting a user to enter data is old and well known in the art of database management. It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the systems of Gonyea and Uegaki to include prompting

a user to input an age of a plurality of parts installer in a component and an age of the component parts in inventory in order enable a user to keep an accurate record of costs and expenditures. Gonyea further teaches, determines, from the schedule of maintenance events, the age of each of the plurality of installed parts and the age of each of the plurality of inventory parts at each maintenance event (see para. 27 lines 9-22 and para. 57 lines 4-9); and displays an identification of each part whose age at each scheduled maintenance event exceeds a pre-determined age (see para. 27 lines 27-37 and para. 28 lines 13-21).

22. As per Claim 16, Gonyea in view of Uegaki and Official Notice teaches the system of claim 15 as described above. Gonyea further teaches access a predetermined on-line catalog, the catalog including new parts costs and parts repair costs and part expected life (see para. 17 lines 4-7 and para. 19 lines 5-9, para. 22 lines 8-13; para. 24 lines 6-10; para. 27 lines 5-7 and para. 28 lines 5-12, Examiner is interpreting the accessing of an online catalog and corresponding parts information to be based on the exact maintenance event as described in para. 28 lines 6-10), Gonyea does not explicitly teach accessing a predetermined on-line catalog using the frame size and combustion type.

However, these differences are only found to be non-functional descriptive material and are not functionally involved in the steps recited. The accessing of the identified data would be the same regardless of the type of identification used to find it. Thus, this descriptive material will not distinguish the claimed invention from the prior art in terms

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of patentability, see *In re Gulack*, 703 F. 2d 1381, 1385, 217 USPQ 401, 404, (Fed. Cir. 1983); *In re Lowry*, 32 F. 3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994).

Gonyea further teaches recommend an inspection interval and an estimate of remaining parts life (see para. 35 lines 9-10 and para. 27 lines 4-7, Examiner is interpreting the recommendation to be based on contract information as described in para. 31 lines 6-10) Gonyea does not explicitly teach recommending an inspection interval and an estimate of remaining parts life based on the inputted gas component frame size and combustion type.

However, these differences are only found to be non-functional descriptive material and are not functionally involved in the steps recited. The recommended inspection interval and the estimate of remaining parts life would be the same regardless of the type of identification used to find the already computed information. Thus, this descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see *In re Gulack*, 703 F. 2d 1381, 1385, 217 USPQ 401, 404, (Fed. Cir. 1983); *In re Lowry*, 32 F. 3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994).

23. As per Claim 24, Gonyea in view of Uegaki, the computer readable medium of claim 19 as described above. Gonyea further teaches said program comprising a code segment that: an age of a plurality of parts installed in the component (see para. 20 lines 6-9 and lines 3-5); an age of the component parts in inventory (see para. 27 lines 9-14, Examiner is interpreting a part that has been removed from a component, repaired and then returned to inventory as having a known age); Gonyea does not explicitly teach a user being prompted to input this data. Official Notice is taken that prompting a

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user to enter data is old and well known in the art of database management. It would have been prima facie obvious to one of ordinary skill in the art at the time of invention to modify the systems of Gonyea and Uegaki to include prompting a user to input an age of a plurality of parts installer in a component and an age of the component parts in inventory in order to keep an accurate record of costs and expenditures. Gonyea further teaches determines, from the schedule of maintenance events, the age of each of the plurality of installed parts and the age of each of the plurality of inventory parts at each maintenance event (see para. 27 lines 9-22 and para. 57 lines 4-9); and displays an identification of each part whose age at each scheduled maintenance event exceeds a pre-determined age (see para. 27 lines 27-37 and para. 28 lines 13-21).

24. As per Claim 25, Gonyea in view Uegaki in further view of Official Notice teaches the computer readable medium of claim 24 as described above. Gonyea further teaches said program comprising a code segment (see para. 60): access a predetermined online catalog, the catalog including new parts costs and parts repair costs and part expected life (see para. 17 lines 4-7 and para. 19 lines 5-9, para. 22 lines 8-13; para. 24 lines 6-10; para. 27 lines 5-7 and para. 28 lines 5-12, Examiner is interpreting the accessing of an online catalog and corresponding parts information to be based on the exact maintenance event as described in para. 28 lines 6-10), Gonyea does not explicitly teach accessing a predetermined on-line catalog using the frame size and combustion type.

However, these differences are only found to be non-functional descriptive material and are not functionally involved in the steps recited. The accessing of the identified data

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would be the same regardless of the type of identification used to find it. Thus, this descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see *In re Gulack*, 703 F. 2d 1381, 1385, 217 USPQ 401, 404, (Fed. Cir. 1983); *In re Lowry*, 32 F. 3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994).

Gonyea further teaches recommend an inspection interval and an estimate of remaining parts life (see para. 35 lines 9-10 and para. 27 lines 4-7, Examiner is interpreting the recommendation to be based on contract information as described in para. 31 lines 6-10) Gonyea does not explicitly teach recommending an inspection interval and an estimate of remaining parts life based on the inputted gas component frame size and combustion type.

However, these differences are only found to be non-functional descriptive material and are not functionally involved in the steps recited. The recommended inspection interval and the estimate of remaining parts life would be the same regardless of the type of identification used to find the already computed information. Thus, this descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see *In re Gulack*, 703 F. 2d 1381, 1385, 217 USPQ 401, 404, (Fed. Cir. 1983); *In re Lowry*, 32 F. 3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tonya Joseph whose telephone number is 571-270-1361. The examiner can normally be reached on Mon-Fri 7:30am-5:00pm First Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Hayes can be reached on 571 272 0847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tonya Joseph Examiner Art Unit 3628

> IGOR N. BORISSOV PRIMARY EXAMINER